

Title (en)

IMAGE GUIDED AUTONOMOUS NEEDLE INSERTION DEVICE FOR VASCULAR ACCESS

Title (de)

BILDGEFÜHRTE AUTONOME NADELEINFÜHRUNGSVORRICHTUNG FÜR GEFÄSSZUGANG

Title (fr)

DISPOSITIF D'INSERTION D'AIGUILLE AUTONOME GUIDÉ PAR L'IMAGE PERMETTANT UN ACCÈS VASCULAIRE

Publication

**EP 3145409 B1 20190206 (EN)**

Application

**EP 15796430 A 20150520**

Priority

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- US 2015031754 W 20150520

Abstract (en)

[origin: WO2015179505A1] An image guided autonomous needle insertion device including a delivery system, a path planner, an image processor, and a human machine interface. The system also includes an ultrasound probe in communication with a frame grabber, a percutaneous insertion device, and at least a first actuator for moving the percutaneous insertion device within a first degree of freedom and a second actuator for moving the percutaneous insertion device within a second degree of freedom. Each actuator has a corresponding position sensor for detecting its location with respect to a target. The system can further comprise an image processor for removing noise and segmenting the ultrasound images to highlight potential targets.

IPC 8 full level

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CPC (source: EP IL US)

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